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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/804,143	03/13/2001		Hajime Enomoto	826.1696/JDH	8633
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STAAS & I SUITE 700	HALSE'	Y LLP	HOANG, PHUONG N		
	YORK A	VENUE, N.W.	ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005				2126	_
				DATE MAIL ED: 01/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/804,143	ENOMOTO, HAJIME				
Office Action Summary	Examiner	Art Unit				
	Phuong N. Hoang	2126				
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) d - If NO period for reply is specified above, the maximum statute - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a recation. 39 a reply within the statutory minimum of third pry period will apply and will expire SIX (6) MON, by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed of	on <u>18 November 2004</u> .	•				
2a) This action is FINAL . 2b)	☐ This action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4) ☐ Claim(s) 1 - 11 is/are pending in the ap 4a) Of the above claim(s) is/are v 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 - 11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	withdrawn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection						
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	•	, , , ,				
Priority under 35 U.S.C. § 119	·					
	cuments have been received. cuments have been received in A the priority documents have been I Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
		•				
Attachment(s)	" —	(070 440)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-		Summary (PTO-413) S)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTo Paper No(s)/Mail Date		nformal Patent Application (PTO-152)				

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DETAILED ACTION

Claims 1 – 11 are presented for examination.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3 8, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Immerman, US patent no. 6,574,617 in view of Cheng, US patent no. 6,067,548.
- 3. Immerman and Cheng references were cited in the last office action.
- 4. **As to claim 11**, Immerman teaches a computer readable medium storing an object network of hierarchically arranged models (a hierarchy of models, abstract and fig 2 and col. 5 lines 11 50), comprising the steps of:

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a data model (data model, object data store model 92) represent an attribute structure as a set of templates;

object model as a higher model than the data model (security model or index model);

Immerman teaches the replication model (replication model, col. 6 lines 15-27) describing the content of a process, and mail model (mail model, col. 6 lines 40-50) defining the rules for cooperatively information from different models.

Immerman does not explicitly cite the replication model and mail model are role model and process model.

Cheng teaches the steps of:

a role model (role model, col. 1 lines 52 – 65 and col. 6) representing the content of a process to be executed in the environment as a set of a plurality of object models; and

a process model (process model, col. 1 lines 52-65 and col. 4 lines 49-60) defining a dynamic process cooperatively executed by a plurality of role models as one process.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Immerman and Cheng's system because Cheng's models would provide the roles and full implementation of important models to process a plurality of models in the hierarchical structure of Immerman's system.

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5. **As to claim 1**, this is apparatus claim of claim 11. See rejection for claim 11 above. Further, Immerman teaches the step of an object contained within the object network (local run time model 90 comprises a hierarchy of models, abstract and fig 2 and col. 5 lines 11 – 50) having a hierarchical structure.

- 6. **As to claim 3,** Immerman teaches the steps comprising of a process function kernel portion for executing a controlling process (client operating system run the applicationexe col. 34 lines 8 22) performed with an intervention of a user of the information processing apparatus using the name of a concerned party for the process of the object network and the name of a work performed by the concerned party.
- 7. **As to claim 4,** Cheng teaches the steps of wherein the data model, object model, and the role model are statically defined (statically defined roles, col. 2 lines 38 42), and wherein the specifications of the process model are dynamically (dynamic, col. 5 lines 45 65) defined so that the validity of the process performed in the set of the plurality of object modes is assured corresponding to a consistency constraint entity defined as an attribute of an object.
- 8. **As to claim 5,** Cheng teaches the steps of wherein an inconsistent constraint entity corresponding to the process model describes a validity predicate about the validity of the process and a control state for executing the process (state, col. 3 lines 30 35 and col. 5 lines 5 15).

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- 9. **As to claim 6**, Cheng teaches the steps of wherein the hierarchical structure further the hierarchical structure of a reference model (reference model, col. 3 lines 40 45 and col. 6 lines 40 45) for accomplishing a basic service to be executed in the process of the object network, the reference model being orthogonal to the hierarchical structure of the data model, the object model, the role model, and the process model.
- 10. **As to claims 7 and 8**, Immerman and Cheng do not explicitly teach the concerned party of the process and the process function kernel portion of the information processing apparatus use a reference driving function so as to accomplish a service of the reference model.

It would have been obvious to one of ordinary skill in the art to recognize that the concerned party of the process and the process function kernel portion of the information processing apparatus use a reference driving function so as to accomplish a service of the reference model because the kernel needs to know which model or function it refers to.

11. Claims 2 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Immerman, US patent no. 6,574,617 in view of Cheng, US patent no. 6,067,548, and further in view of Pandit, US patent no. 5,937,402.

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12. Pandit reference was cited in the last office action.

13. **As to claim 2,** Cheng and Immerman does not explicitly teach the steps of wherein the object model has:

a format model representing a pattern of a noun object and a verb object;

a feature model representing a feature of the object corresponding to an attribute value of the object and having a constraint condition corresponding to the environment;

an object network model having a graph structure of which the name of the noun object is represented as a node and the name of the verb is represented as a branch.

Pandit teaches the steps of

a feature model representing a feature of the object corresponding to an attribute value of the object and having a constraint condition corresponding to the environment (the object model Constraint servers to establish the relationship for both the objects, col. 9 lines 35 – 55);

an object network model having a graph structure of which the name of the noun object is represented as a node and the name of the verb is represented as a branch (col. 9 lines 45 – 52 and col. 10 lines 40 - 45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Cheng, Immerman, and Pandit's system because Pandit's constraint condition would provide a valid selection of data and reliable data.

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- 14. **As to claim 10,** Pandit teaches the steps of structure designing means for designing a system structure in such a manner that noun objects and verb objects (col. col. 9 lines 35 55) that compose the object network correlate with data paths as keywords of the system structure.
- 15. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Immerman, US patent no. 6,574,617 in view of Cheng, US patent no. 6,067,548, and further in view of the admitted prior art (APA) pages 1 3.
- 16. As to claim 9, Immerman and Cheng do not teach the steps of a WELL system as software using the object network and the common platform; and software exporting means for exposing the WELL system to another software The APA teaches a WELL system (well, page 3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Cheng, Immerman, and the APA's system because the APA's WELL system is also a window based system and would provide an user-friendly system for Cheng's enterprise application.

Response to Arguments

17. Applicant's arguments, filed on 9/7/04, have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong N. Hoang whose telephone number is (703)

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605-4239. The examiner can normally be reached on Monday - Friday 9:00 am to 5:30

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703)305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ph January 14, 2005 MENG-AL T. AN SUPERVISORY PATENT EXAMINER SUPERVISORY PATENT EXAMINER 2100